

DIGITALIZATION OF THE ASMAN TOGA SEGER SANE FAMILY'S MEDICINAL PLANTS IN LEBO, MADIREDO VILLAGE, PUJON, MALANG

**Arista Fauzi Kartika Sari^{1*}, Ressy Yulia Ababil^{2*}, Elfa Nur Sa'ida^{3*}, Nabila Nur
Chalisa^{4*}, Tomy Daryoga^{5*}, Gusti Muhammad Rizal^{6*}**

Faculty of Economics & Business Universitas Islam Malang
cpatestfeunisma@gmail.com

ABSTRACT

TOGA (Family Medicinal Plants) has many benefits for treating and preventing various diseases. TOGA plants can be planted in the yard. The Seger Waras TOGA plant in Lebo Hamlet, Madiredo Village, Pujon, is one of them. The TOGA plants there have been cared for by the Agriculture Office that has been there, but unfortunately, the technology has not been touched in it. Not only that, but the labeling of toga plants is also fragile and has begun to be damaged over time. This service's purpose is for the manager and the community to utilize these toga plants and be technologically literate in the current era. This service method is carried out through digitization media by making barcodes that function to collect and identify around 90 types of family medicinal plants (TOGA) managed by the Seger Waras Independent Care Group. The community can access this barcode and guests via smartphone. The results of this service activity will facilitate access to knowledge, in this case, TOGA, to obtain information on the scientific names of plants, types, and benefits of TOGA. They can provide expertise so that they independently make traditional medicinal recipes to treat and prevent diseases. In addition, the community is also aware of cultivating medicinal plants independently in the yard, where the barcode system is updated following the development of scientific research.

INTRODUCTION

Toga plants are one type of plant that is very useful or beneficial for health. This plant is also easy to grow in the yard. ASMAN TOGA belongs to the Seger Waras Independent Care Group located in Lebo Hamlet, Madiredo Village, Pujon, Malang City. The Toga plants there are managed by the Malang Agriculture Office. The Toga plants there have indeed been well cared for by the manager. But unfortunately it has not been touched by the lack of technological development. Less or at least the people there are still unfamiliar with technology. For this reason, we took the initiative to help the community to directly develop ASMAN TOGA there. ASMAN TOGA Seger Waras is not only used for plant development, but also as a forum for people of all levels in terms of medicinal plant

education. It is not uncommon for schools to invite their students to learn directly at ASMAN TOGA Seger Waras. The innovation of digitizing TOGA plants has been considered in accordance with the situation of the people there who already have smartphones. Later it will be taught about how to scan barcode labeling on each type of plant that is there. So that later the objectives of the service can be achieved, namely by making it easier for the community to find information independently starting from the scientific name, benefits and how to utilize it as a medicinal plant.

The results of the service are very satisfying and make it easier for the community to identify every plant that is there. These results are also in line with the service that has been carried out by Idris (2023), which has a theme not much different from ours, namely Digitalization of Family Medicinal Plants Asman Toga Kencono Wungu as a means of educating the Kenep Bojonegoro Village community.

We expect the youth of the youth organization and the surrounding community there to be more able to become the next pioneer in maintaining and caring for the continuity of this ASMAN TOGA Seger Waras. We hope that this digitization program will make it easier for managers, communities and guests to obtain the information needed regarding plants.

METHOD

The method used is direct observation to the field. This activity was carried out by KSM-T GROUP 09. With the program name "Digitalization of ASMAN TOGA Plants". This program is in collaboration with the ASMAN TOGA manager, namely the Malang City Agriculture Office. Implemented in Lebo Hamlet, Madiredo Village, Pujon, Malang. The number of people involved was around 14 people.

The method of this service in general can be shown in Figure 1.

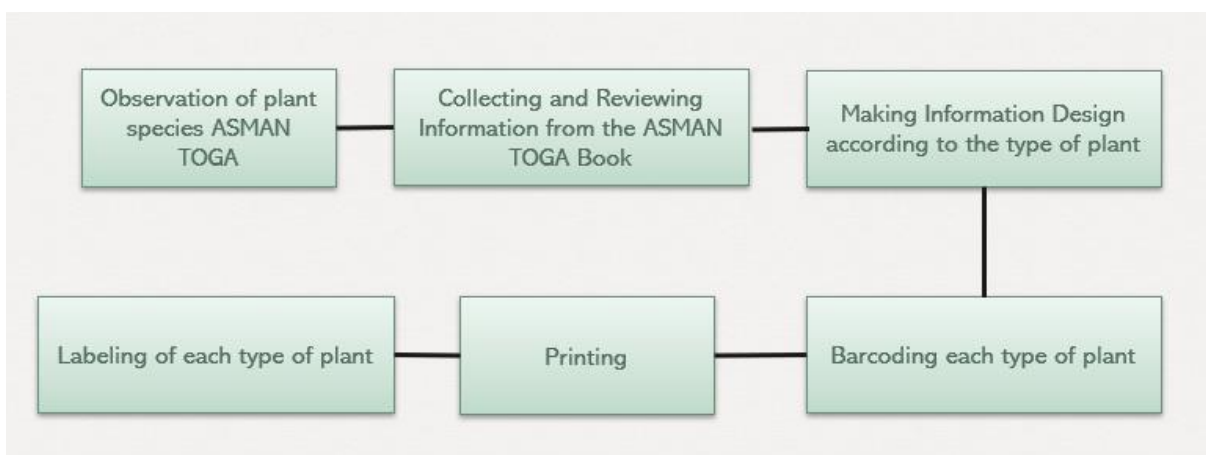


Figure 1: Flowchart of community service.
(Source: Independent Design by Ressay Yulia Ababil)

RESULTS AND DISCUSSION

This service activity has the aim of applying technology in ASMAN TOGA and providing knowledge about important information that needs to be known on each ASMAN TOGA plant. With this, it is hoped that the community will have awareness in planting or caring for their ASMAN TOGA plants in their yard. This activity is expected to have a positive impact on the manager and the surrounding community. This service was organized by KSM-T GROUP 09 UNISMA which is one of the work programs during KSM. This program was carried out at the end of August to early September. In the initial stage, we made observations, then collected and reviewed information from the ASMAN TOGA book. After that we coordinated with the manager. Not long after, we went straight to the process of making information designs according to the type of plant. Followed by making barcode. In the last stage there is printing and labeling process. All processes from start to finish lasted approximately 11 days.

Once the process is complete, we teach the surrounding community how to use it. ASMAN TOGA Seger Waras has approximately 90 species of medicinal plants. And almost all of them are used for daily needs. Some of them are Keji Beling (*Strobilanthes crispus*), Bunga Telang (*Clitoria ternatea*), Turmeric (*Curcuma longa* L), Rosella (*Hibiscus sabdariffa*), Aloe Vera (*Aloe Vera* L), Mata Dewa (*Isotoma longiflora*).

The total number of plants is approximately 90 types, and the labeling process is carried out by us as KSM-T GROUP 09. And our program has been appreciated by the Malang District Health Office. To be used as an example of digitizing ASMAN TOGA in other places. The obstacle of this program is that plants that are not classified as toga plants are included in the asman toga garden in Lebo Hamlet and plant information has not been installed thoroughly. Overcoming this by re-sorting plants that are in accordance with the toga asman group and completing plant information that is not yet available.

Figure 2.
(Observation, discussion, and cleaning ASMAN TOGA Seger Waras)



Figure 3.
(Observation, discussion, and cleaning ASMAN TOGA Seger Waras)

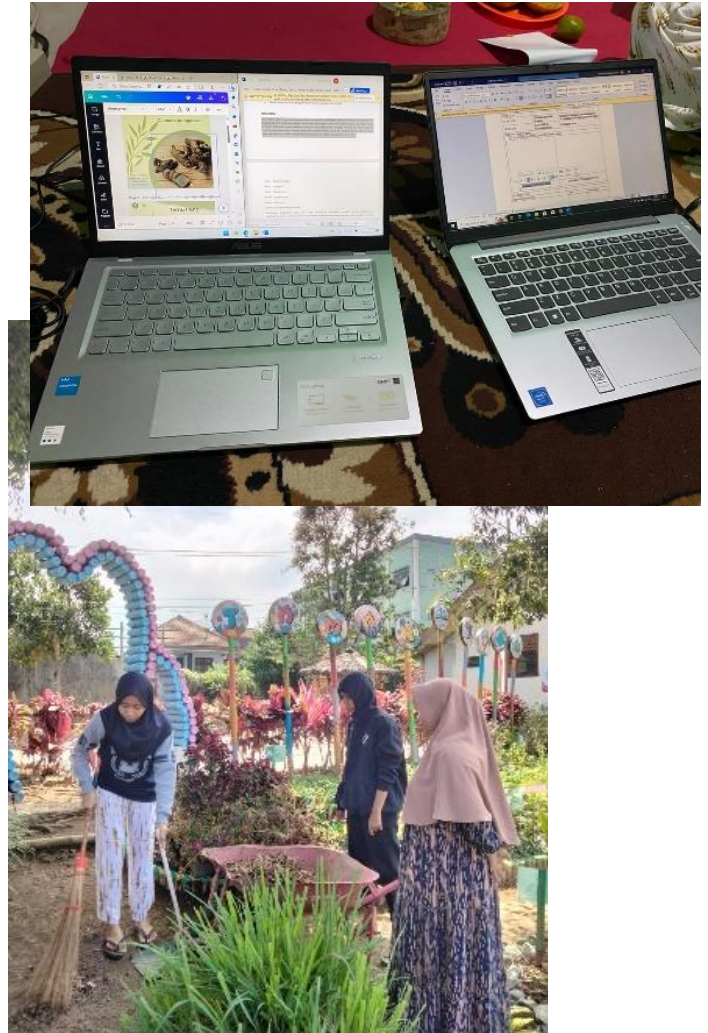


Figure 4. (Collecting, reviewing plant information and making plant information designs)



Figure 5. (Collecting, reviewing plant information and making plant information designs)



Figure 6. (Preparation of wooden poles and painting of wood for labeling)



Figure 9.

(Plant labeling and finishing process at ASMAN TOGA)



Figure 8.



Figure 10. Foto bersama dengan pihak pengelola ASMAN TOGA

CONCLUSION

This service program was initiated and has been carried out by KSM-T GROUP 09 UNISMA. The idea arose from students during a visit to the ASMAN TOGA PARK. The purpose of this service is to apply digitalization technology to

ASMAN TOGA in Lebo Hamlet, Madiredo Village, Pujon, Malang. The results of the implementation that have been carried out have a positive impact on all parties, especially the managers and the surrounding community. And it is hoped that this service program can still be maintained, managed and beneficial for all parties. Hopefully it can inspire TAMAN ASMAN TOGA in other places, so that this digitalization can be comprehensive.

REFERENCES

Muhammad Idris, B. A. (2023). *Digitalisasi Tanaman Obat Keluarga Asman Toga Kencono Wungu Sebagai Sarana Edukasi Masyarakat Desa Kenep Bojonegoro.*